

Appl. No. : Unknown
Filed : Herewith

IN THE CLAIMS:

Please amend the Claims as follows:

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1. (Amended) A tool adapted for changing the direction of drilling with drilling equipment comprising a drill string, drill string sub, drilling engine and drill bit, wherein the tool is positioned between the drill string and the bent sub and wherein the tool comprises housing elements, which are connected to one another, and wherein the tool has a passage for fluid, and wherein the tool is equipped with a hydraulic piston having a set of co-operating guides where the guides are arranged for by the pistons axial displacement a forced guiding of the rotation of a first housing element with respect to the other housing elements, and where necessary fluid pressure for moving the piston is obtained by choking the fluid flow through the tool and wherein a lower intermediate housing element and a lower housing element are connected by a one direction rotatable connection.

2. (Amended) The tool of Claim 1, wherein a first set of the guides is formed in the wall of the passage, and a second set of the guides is formed in the wall of the piston opposite.

3. (Amended) The tool of Claim 2, wherein the set of guides for the forced guiding of the rotation comprise twisted splines, a first set of splines being formed in a circumferential portion of an upper intermediate housing element whereas a second set of splines is formed in a circumferential portion of the piston.

4. (Amended) The tool of Claim 3, wherein the first set of splines extends in a region at the upper end of the lower housing element, whereas the second set of splines extends essentially in the longitudinal direction of the piston.

5. (Amended) The tool of Claim 1, further comprising a valve comprising a valve seat formed at the upper end of a bore adapted to provide a passage through the piston, a valve body and a valve mechanism adapted for choking and opening the valve by increase and relief, respectively, of the fluid pressure in the tool.

6. (Amended) The tool of Claim 5, wherein the valve mechanism is formed by an upper and a lower valve body part adapted for displacement along the valve body, so that the lower valve body part can choke or open the valve, and a valve body spring, wherein the upper valve body part will displace the lower valve body part to choke the valve when the pressure of

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Sub B1 the fluid is increased, and the valve body part spring will displace the lower valve body part in the opposite direction to open the valve by relief of the pressure of the fluid.

7. (Amended) The tool of Claim 5, wherein the piston is adapted to be displaced by the fluid supplied to the tool when the valve has been choked, or be displaced in the opposite direction by a piston spring, positioned in an upper annular space, formed in the passage of the tool, after the valve has opened.

8. (Amended) The tool of Claim 7, wherein the piston is sleeve-shaped, positioned between an upper shoulder formed in the passage of the tool, and a shoulder element located in the upper annular space and formed with a length which enables the piston to extend from the upper shoulder into the upper annular space located in an extension above a lower shoulder formed at the lower end of the upper annular space.

9. (Amended) The tool of Claim 1, wherein the piston and the upper end of the lower housing element are displaceably and rotatably connected,

10. (Amended) The tool of Claim 9, wherein the displaceable and rotatable connection is formed by a ratchet mechanism formed with catch elements locking against, or running freely across, guides formed at the upper end of the lower housing elements, so that the lower housing element is subjected to rotation when the piston is displaced down the passage of the tool, or is without rotation when the piston is displaced back through the passage of the tool.

11. (Amended) The tool of Claim 7, wherein the lower housing element has a lower annular space arranged thereto, for fluid which is displaced from the upper annular space, and wherein the annular spaces communicate by means of channels extending between the annular spaces respectively, and wherein the flow of displaced fluid can be controlled by a check valve and a choke valve placed in the respective channels.

12. (Amended) The tool of Claim 11, wherein the lower annular space has a displaceable annular space body arranged thereto.

13. (Amended) The tool of Claim 6, wherein the valve body and the upper valve body part are formed with bores, so that a cable can be drawn through the passage of the tool.

Sub B1 14. (New) The tool of Claim 1, wherein the one direction rotatable connection comprises a roller bearing adapted for rotation in one direction and opposing rotation in the opposite direction in any rotational position.